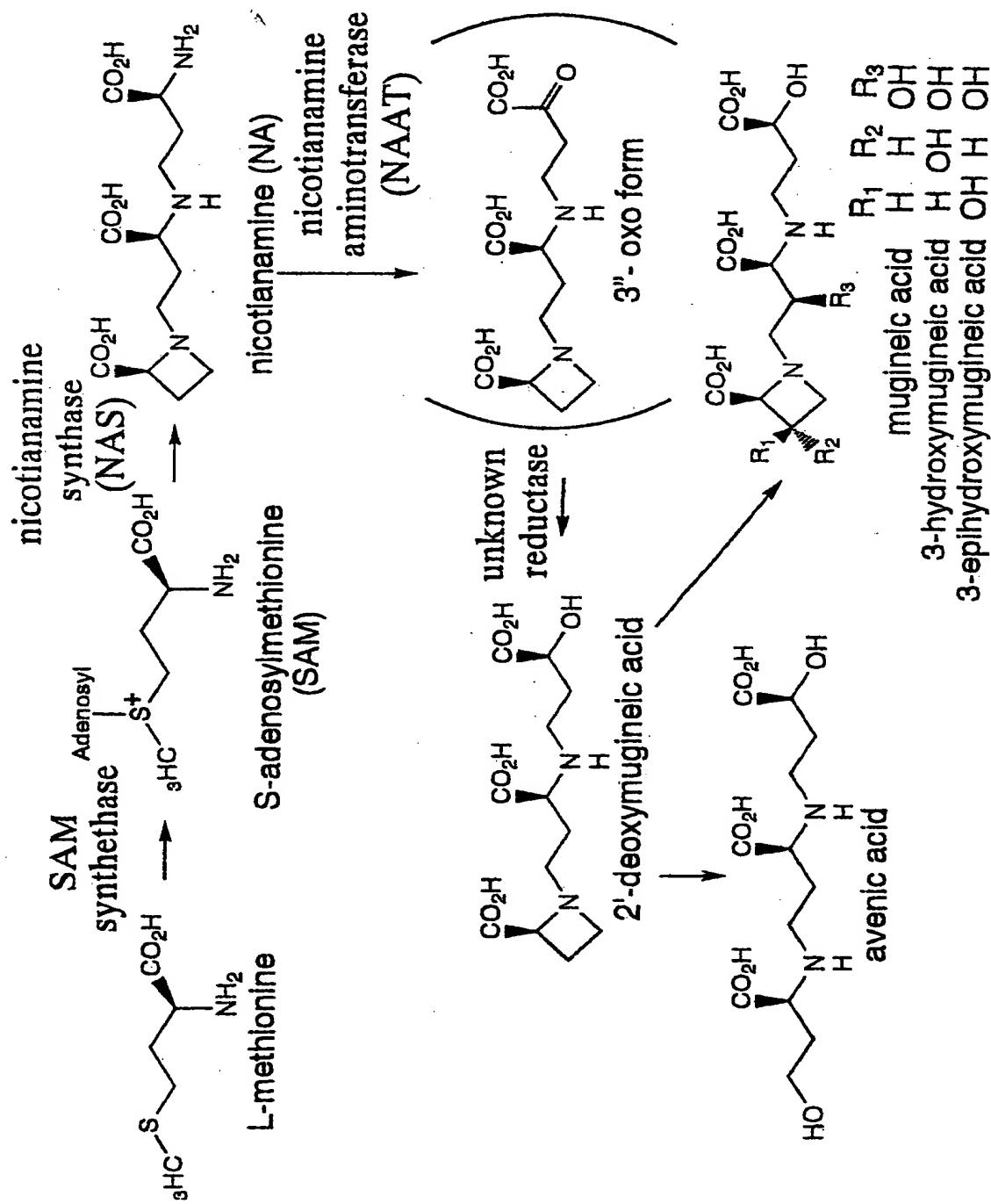


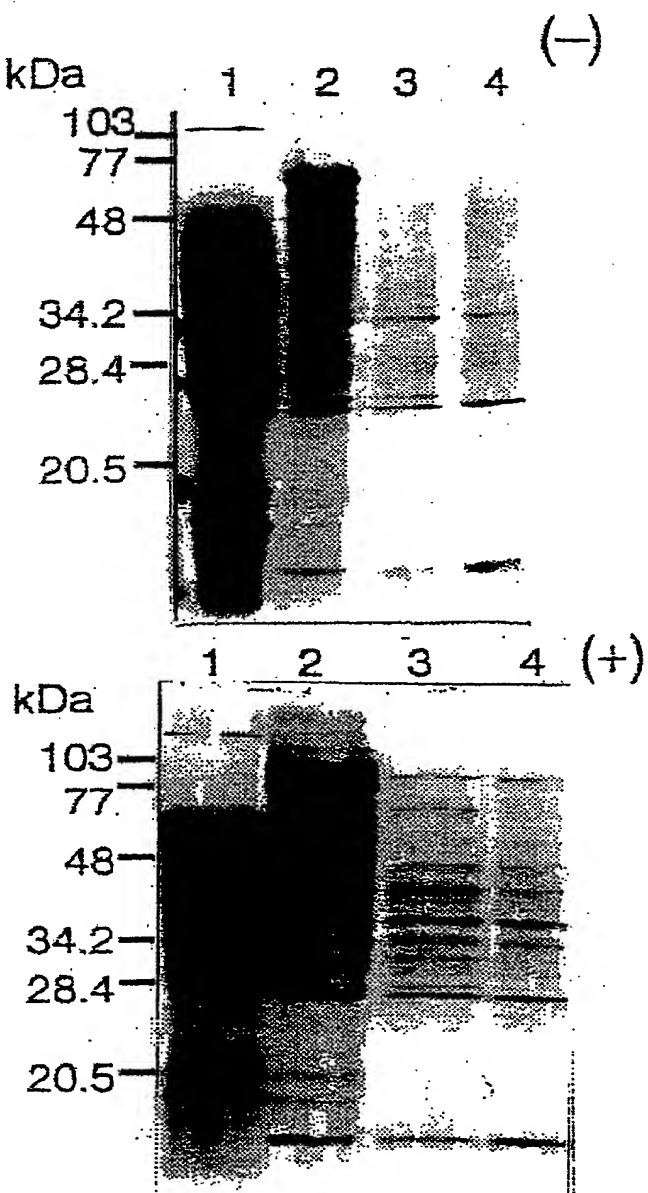
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Fig. 1



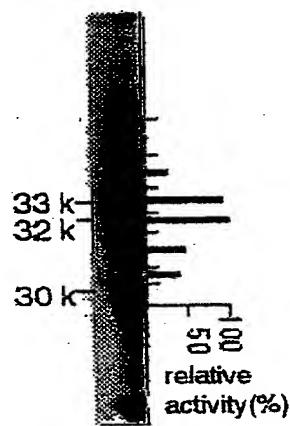
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Fig. 2



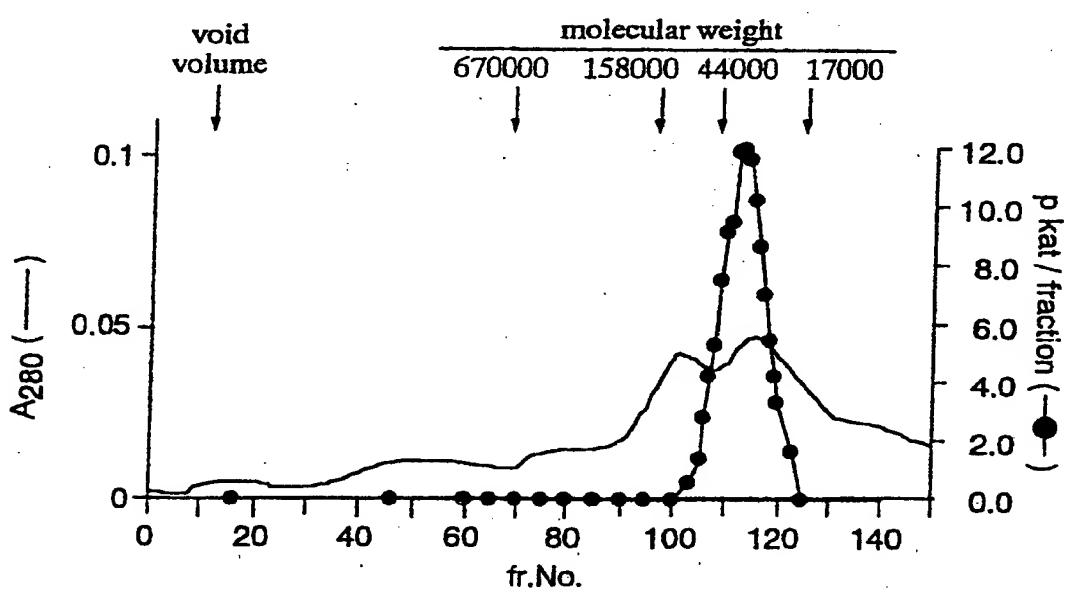
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Fig. 3



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Fig. 4



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Fig. 5

[33, 32 kDa -1] rice (D24790)	DAQNKEVAALIEKIAIGIQA ::: ::: ::: ::: MEAQNQE Y ALVEKIAGLHAAISKLPSLSPSAEVDAFFDLVTACVPASPVDVAKLGPEAQANREELIRLC NR primer	[33, 32 kDa -2] REALIRL ::: ::: ::: ::: :::
[rice (D23792)]	YVNLSKLEYDLLLRYVPGIAPTRVAFVGSGPLPFSSLVLAHHLPDAVFNYDRCGAANERRLFRGADEGLGARRM~ IF primer	~AFHTGDVATLTTGELGAYDVFLATLVGMAEEEKP IR primer
[33, 32 kDa -3]	SFHTADVADLTQELGAYDVFLAALVDMAEEEIAKVVIAHLGAMVEGASLVVYSAHGARGFLYP	~ IR primer
[30 kDa -1]	AFHTAEVTDLTAELGAYDV	[30 kDa -2] ADGAVLVARSAHGARAFLYPVVLEDVGR
[33, 32 kDa -4]	PEDI R GG F EVL A V H PE G E	

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Fig. 6

	GCG TTC AGA GGC TTC CAG AGT TCT TCC GGT CAC CAA GAA GCA TTT GAT CAT AAC	54
19	ATG GAT GCC CAG AAC AAG GAG GTC GCT GCT CTG ATC GAG AAG ATC GCC GGT ATC M D A Q N K E V A A L I E K I A G I	108
37	CAG GCC GCC ATC GCC GAG CTG CCG TCG CTG AGC CCG TCC CCC GAG GTC GAC AGG Q A A I A E L P S L S P S P E V D R	162
55	CTC TTC ACC GAC CTC GTC AC G GCC TGC GTC CCG CCG AGC CCC GTC GAC GTG ACG L F T D L V T A C V P P S P V D V T	216
73	AAG CTC AGC CCG GAG CAC CAG AGG ATG CGG GAG GCT CTC ATC CGC TTG TGC TCC K L S P E H Q R M R E A L I R L C S	270
91	GCC GCC GAG GGG AAG CTC GAG GCG CAC TAC GCC GAC CTG CTC GCC ACC TTC GAC A A E G K L E A H Y A D L L A T F D	324
109	AAC CCG CTC GAC CAC CTC GGC CTC TTC CCG TAC TAC AGC AAC TAC GTC AAC CTC N P L D H L G L F P Y Y S N Y V N L	378
127	AGC AGG CTG GAG TAC GAG CTC CTG GCG CGC CAC GTG CCG GGC ATC GCG CCG GCG S R L E Y E L L A R H V P G I A P A	432
145	CGC GTC GCC TTC GTC GGC TCC GGC CCG CTG CCG TTC AGC TCG CTC GTC CTC GCC R V A F V G S G P L P F S S L V L A	486
163	GCG CAC CAC CTG CCC GAG ACC CAG TTC GAC AAC TAC GAC CTG TGC GGC GCG GCC A H H L P E T Q F D N Y D L C G A A	540
181	AAC GAG CGC GCC AGG AAG CTG TTC GGC GCG ACG GCG GAC GGC GTC GGC GCG CGT N E R A R K L F G A T A D G V G A R	594
199	ATG TCG TTC CAC ACG GCG GAC GTC GCC GAC CTC ACC CAG GAG CTC GGC GCC TAC M S F H T A D V A D L T Q E L G A Y	648
217	GAC GTG GTC TTC CTC GCC GCG CTC GTC GGC ATG GCA GCC GAG GAG AAG GCC AAG D V V F L A A L V G M A A E E K A K	702
235	GTG ATT GCC CAC CTG GGC GCG CAC ATG GTG GAG GGG GCG TCC CTG GTC GTG CGG V I A H L G A H M V E G A S L V V R	756
253	AGC GCA CGG CCC CGC GGC TTT CTT TAC CCC ATT GTC GAC CCG GAG GAC ATC AGG S A R P R G F L Y P I V D P E D I R	810
271	CGG GGT GGG TTC GAG GTG CTG GCC GTG CAC CAC CCG GAA GGT GAG GTG ATC AAC R G G F E V L A V H H P E G E V I N	864
289	TCT GTC ATC GTC GCC CGT AAG GCG GTC GAA GCG CAG CTC AGT GGG CCG CAG AAC S V I V A R K A V E A Q L S G P Q N	918
307	GGA GAC GCG CAC GCA CGG GGC GCG GTG CCG TTG GTC AGC CCG CCA TGC AAC TTC G D A H A R G A V P L V S P P C N F	972
325	TCC ACC AAG ATG GAG GCG AGC GCG CTT GAG AAG AGC GAG GAG CTG ACC GCC AAA S T K M E A S A L E K S E E L T A K	1026
	GAG CTG GCC TTT TGA TTG AAG AGT GCG CGT GGT CAT TCT GTC GCC TGC GAT CGT E L A F *	1080
	GGT AAC TTT CCT ACT CGT GTG TGT TTT GAT GTT TGT GGC TGT AAG AGT TAT GCT TCC GGC CTT GTG CTG TTA ATT TAC AGC CGT TAC ATG TAG TAC TTG TAT TTA TAC	1134
	CTG GAA TAA CGG TAT GTA ACA TAA ATA TTA GTG GGA TTT GAA GTG TAA TGC TAA ATA ATA AGA AAA CTT GAT GCA GAC ATT CAA AAA AAA AAA AAA AAA AAA AAA AA	1188
		1242

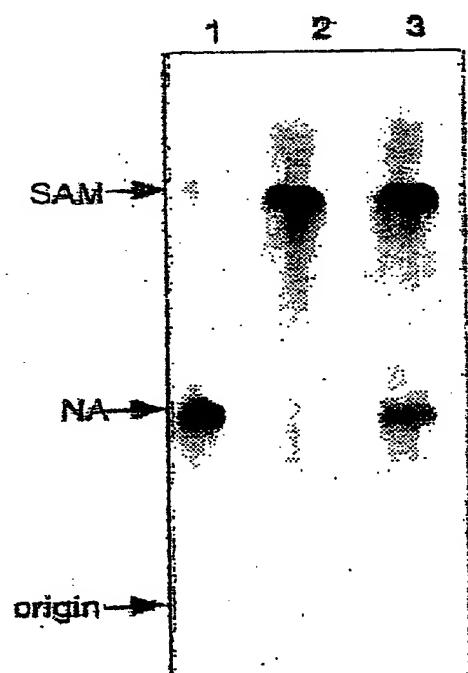
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Fig. 7

HvNAS4	MDGQSE -- EVDALVQKITGLHAAIAKPLSLSPSPDVDALFTDLVTACVPPSPVDTKLAP
HvNAS7	MDAQSK -- EVDALVQKITGLHAAIAKPLSLSPSPDVDALFTDLVTACVPPSPVDTKLAP
HvNAS6	MDAQNK -- EVDALVQKITGLHAAIAKPLSLSPSPDVDALFTDLVTACVPPSPVDTKLGS
HvNAS2	MAAQNN-QEVDALVEKITGLHAAIAKPLSLSPSPDVDALFTELVTACVPPSPVDTKLGP
HvNAS3	MAAQNNMKDVAALVEKITGLHAAIAKPLSLSPSPDVDALFTELVTACVPPSPVDTKLGP
HvNAS1	MDAQNK -- EVAALIEKIAGIQAAIAELPLSLSPSPEVDRLFTDLVTACVPPSPVDTKLSP
HvNAS5	MEAENG -- EVAALVEKITGLHAAISKLPAISPSQVDAFLTELVAACVPPSPVDTKLGP
	* * * * * *** * * * * * *** * * * * * *** * * * * *
HvNAS4	EAQAMREGLIRLCSEAEGKLEAHYSDMLAAFDNPLDHLGVPYYNSYINLSKLEYELLAR
HvNAS7	EAQAMREGLIRLCSEAEGKLEAHYSDMLAAFDNPLDHLGVPYYNSYINLSKLEYELLAR
HvNAS6	EAQMREGLIRLCSEAEGKLEAHYSDMLAAFDNPLDHLGGMFPYYNSYINLSKLEYELLAR
HvNAS2	EAQMREGLIRLCSEAEGKLEAHYSDMLAAFDKPLDHLGGMFPYYNSYINLSKLEYELLAR
HvNAS3	EAQMREGLIRLCSEAEGKLEAHYSDMLAAFDNPLDHLGIFPYYNSYINLSKLEYELLAR
HvNAS1	EHQRMREALIRLCSEAEGKLEAHYADLLATFDNPLDHGLFPYYNSYINLSRLEYELLAR
HvNAS5	EAQMQRQDLIRLCSEAEGKLEAHYSDMLTALDSPLDHGLGRFPYFDNYVNLSKLEHDLLAG
	* * * * * *** * * * * * *** * * * * * *** * * * * *
HvNAS4	YVPGRHRPARVAFIGSGPLPFSSYVLAARHLPDTVFDNYDLCGAANDRATRLFRADKD - V
HvNAS7	YVPGGIAPARVAFIGSGPLPFSSYVLAARHLPDTVFDNYVPVRAANDRATRLFRADKD - V
HvNAS6	YVPGGIAPARVAFIGSGPLPFSSYVLAARHLPDAMFDNFNYDLCSAANDRASKLFRADKD - V
HvNAS2	YVPGGYRPARVAFIGSGPLPFSSFVLAARHLPDTMFNFNYDLCGAANDRASKLFRADRD - V
HvNAS3	YVRR-HRPARVAFIGSGPLPFSSFVLAARHLPDTMFNFNYDLCGAANDRASKLFRADTD - V
HvNAS1	HVPG-IAPARVAFVGSGPLPFSSLVLAHHLPETQFDNFNYDLCGAANERARKLFGATADGV
HvNAS5	HVAA--PARVAFIGSGPLPFSSLFLATYHLPDTRFNFNYDRCVANGRAMKLVGAADEGV
	* * * * * *** * * * * * *** * * * * * *** * * * * *
HvNAS4	GARMSFHTADVADLTDELATYDVVFLAALVGMAAEDEKAKVIAHLGAHMADGAALV - ARH
HvNAS7	GARMSFHTADVADLTDELATYDVVFLAALVGMAAEDEKGQGDPHLGAHMADGAALVR - SAH
HvNAS6	GARMSFHTADVADLTRELAAYDVVFLAALVGMAAEDEKAKVIPHLAGHMADGAALVV - RSA
HvNAS2	GARMSFHTADVADLAGELAKYDVVFLAALVGMAAEDEKAKVIAHLGAHMADGAALVRSAH
HvNAS3	GARMSFHTADVADLASELAKYDVVFLAALVGMAAEDEKAKVIAHLGAHMADGAALVRSAH
HvNAS1	GARMSFHTADVADLTQELGAYDVVFLAALVGMAEEEAKVIAHLGAHMADGAALVRSAH
HvNAS5	RSRMAFHTAEVTDLTAEELGAYDVVFLAALVGMTSKEKADAIAHLGKHMADGAVLVREALH
	* * * * * *** * * * * * *** * * * * * *** * * * * *
HvNAS4	GARGFLYPIVDPQDIGRGGEVLAUNCHPD-DDVNSVIIAQKSNDVHEYGLGSGR - GGR
HvNAS7	GARGFLYPIVDPQDIGRGGEVLAUNCHPD-DDVNSVIIAQSKDMFANGPRNGC - GGR
HvNAS6	QARGFLYPIVDPQDIGRGGEVLAUNCHPD-DDVNSVIIAQSKDVHANERPNGR - GGQ
HvNAS2	GARGFLYPIVDPQDIGRGGEVLAUNCHPD-DDVNSVIIAQSKDVHADGLGSGRGAGGQ
HvNAS3	GARGFLYPIVDPQDIGRGGEVLAUNCHPD-DDVNSVIIAQKSKEVHADGLGSGARGRQ
HvNAS1	RPRGFLYPIVDPEDIRRGGEVLAHVHPE-GEVINSVIVARKAVEAQLSGPQNGD - - A
HvNAS5	GARAFLYPVVELDDVGRGGFQLAVHHPAGDEVFNFSIVARKVKMSA - - - - -
	* *
HvNAS4	YARGTWPVSSPPCRFG-EMVADVTQ - KREEFANAEVAF
HvNAS7	YARG-TVPVWSSPPCRFG-EMVADVTQ - KREEFAKAEVAF
HvNAS6	YRGA - VPVWSSPPCRFG-EMVADVTB - KREEFTNAEVAF
HvNAS2	YARG-TVPVWSSPPCRFG-EMVADVTQNHKRDEFANAEVAF
HvNAS3	YARG-TVPVWSSPPCRFG-EMVADVTQNHKRDEFANAEVAF
HvNAS1	HARG-AVPLVSPPCNFKMEASALE - KSEELTAKELAF
	* * * * * * * * * * * * * * * * *

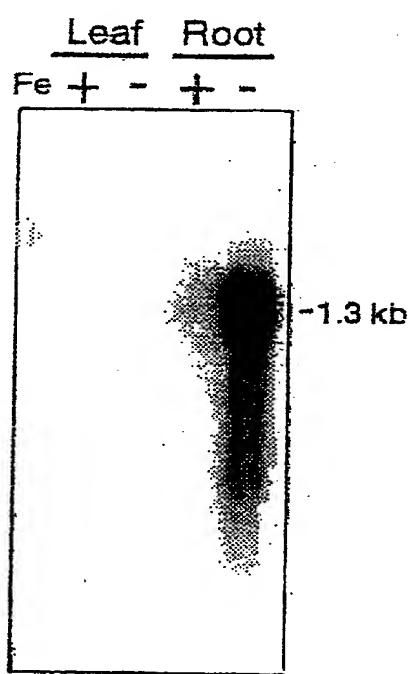
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Fig. 8



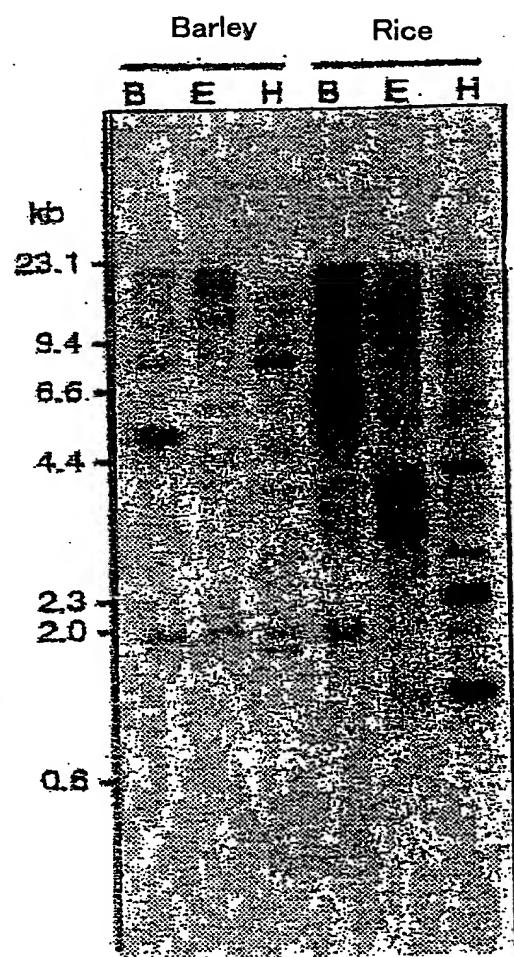
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Fig. 9



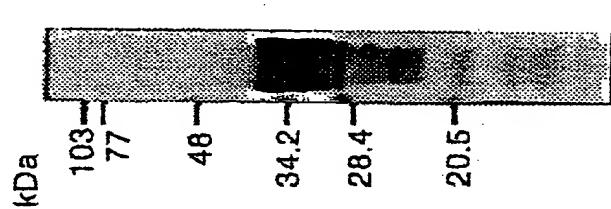
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Fig. 10



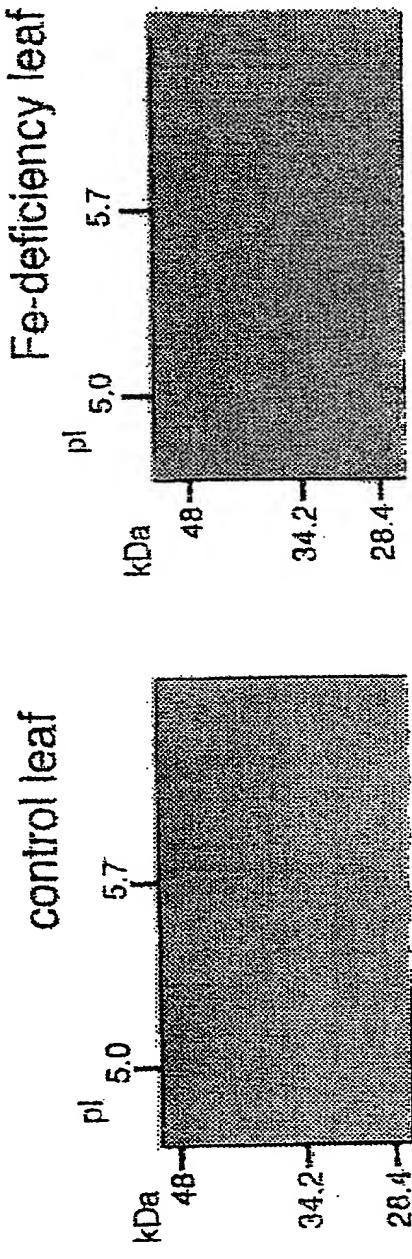
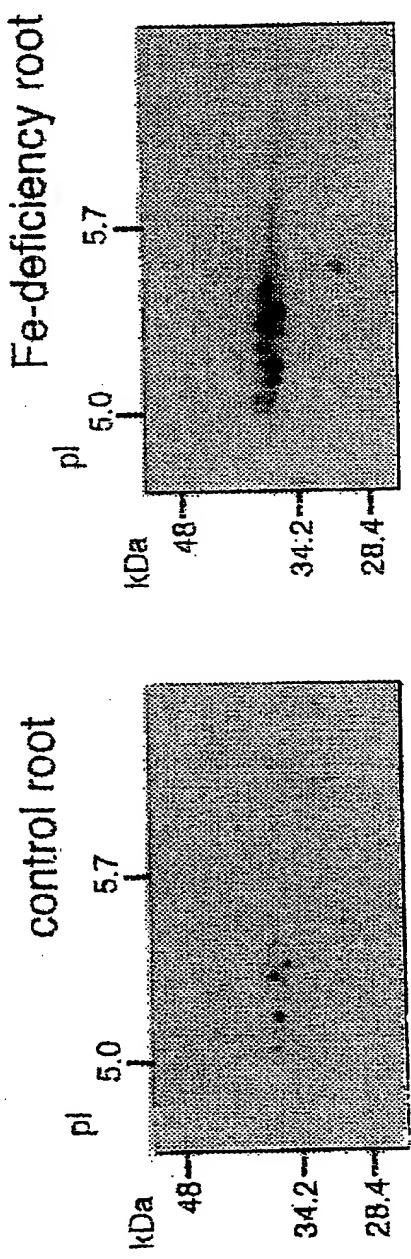
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Fig. 11



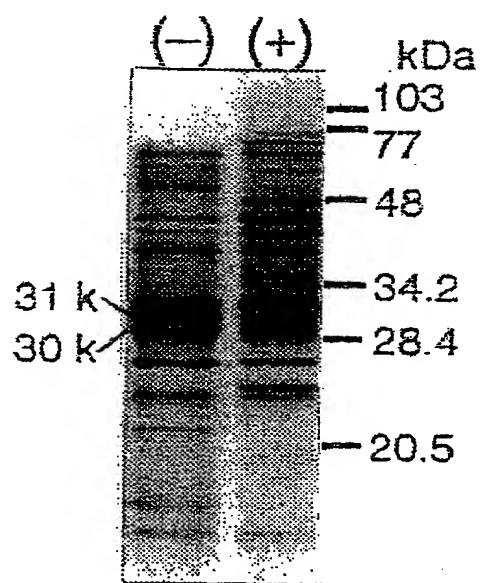
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Fig. 12



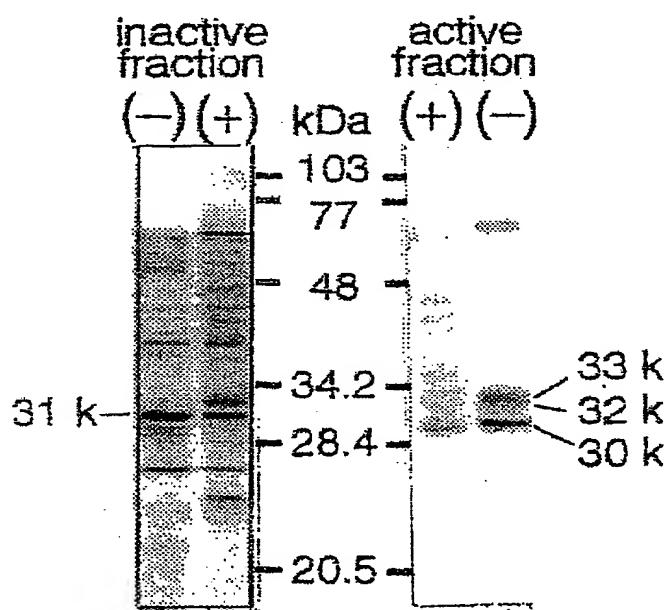
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Fig. 13



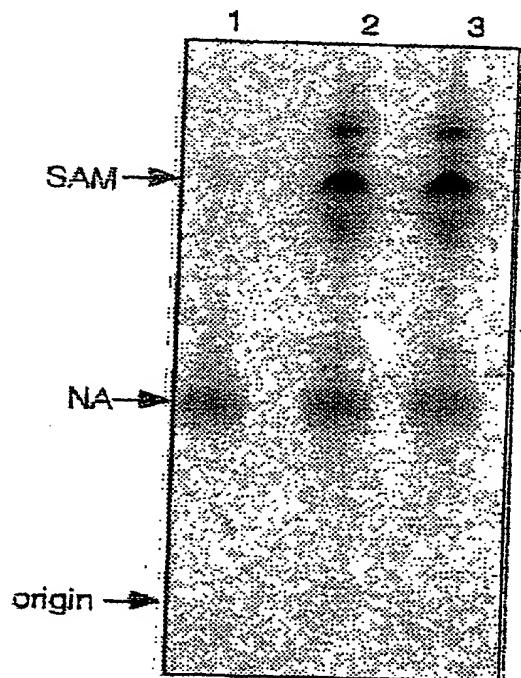
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Fig. 14



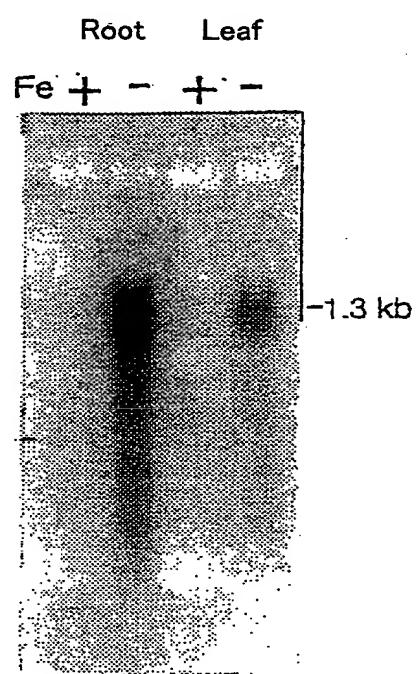
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Fig. 15



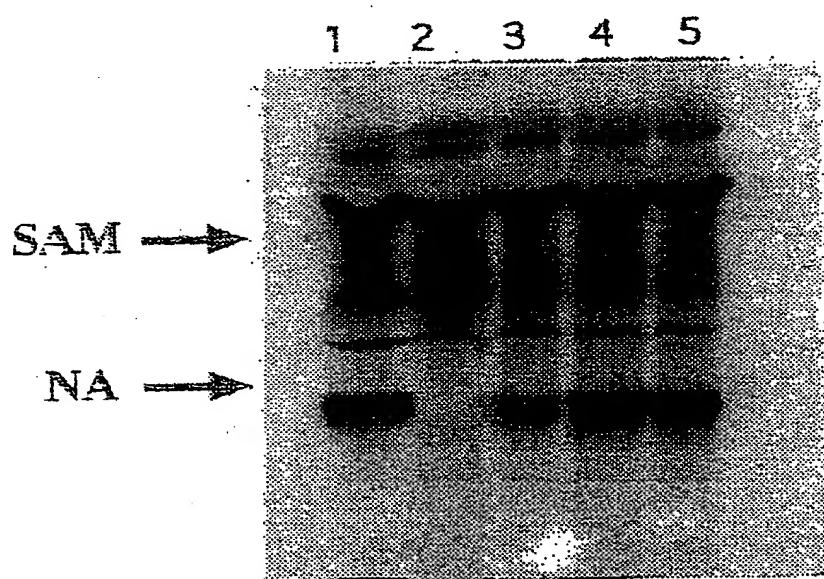
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Fig. 16



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Fig. 17



09/674337

Fig. 18

